



*QC'd all the way*



## "TOTAL WIRING" SYSTEMS APPLICATIONS

There can be no more dramatic proof of the versatility and flexibility of the Kent system design concept than working applications. Shown here are examples which are the result of Kent application engineers solving many varied problems, translating wiring diagrams-schematics and working drawings into complete systems.

Each system exhibits the practical application of techniques developed by Kent which have advanced the art of cabling — with reliability and lowest installed cost.

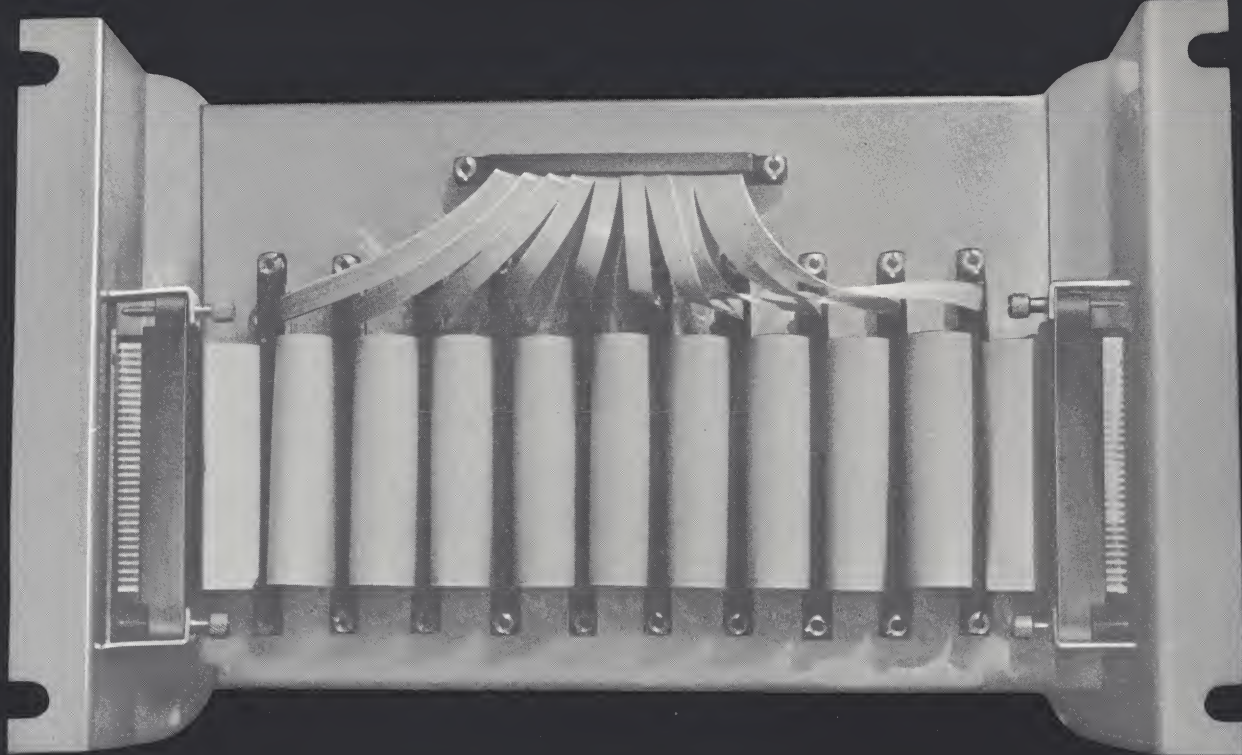
Kent application engineers will be pleased to discuss your potential usage.

Kent Flat Conductor Cable connectors have passed the stringent MSFC specifications when tested according to MIL-STD 202-B.

"Moving Wires" —  
"Wires That Travel" —  
"Wiring In Motion" —

These are phrases descriptive of the Kent Expandable Rack and Panel System. Order card on reverse side of this page.





*Manufacturer of Recreational Equipment which Incorporates Visual Display of Computer Analysis.*

■ Because complicated hook-up and installation of complex equipment had to be made in the field under difficult and varying conditions, Kent Flat Conductor Cable Systems supplied the ideal answer. Now all pre-fabrication is accomplished in plant. Field installation consists of mounting the junction box and plugging-in connectors which mate and assure polarity. The Kent Flat Conductor Cable System has eliminated all field problems of cutting wire, stripping wire, making connections, check out and re-work.

Material costs are lower than former method. Installation time is cut by more than 50%! Reliability is greatly increased. Danger of damage during installation to socket connectors (formerly used) eliminated.

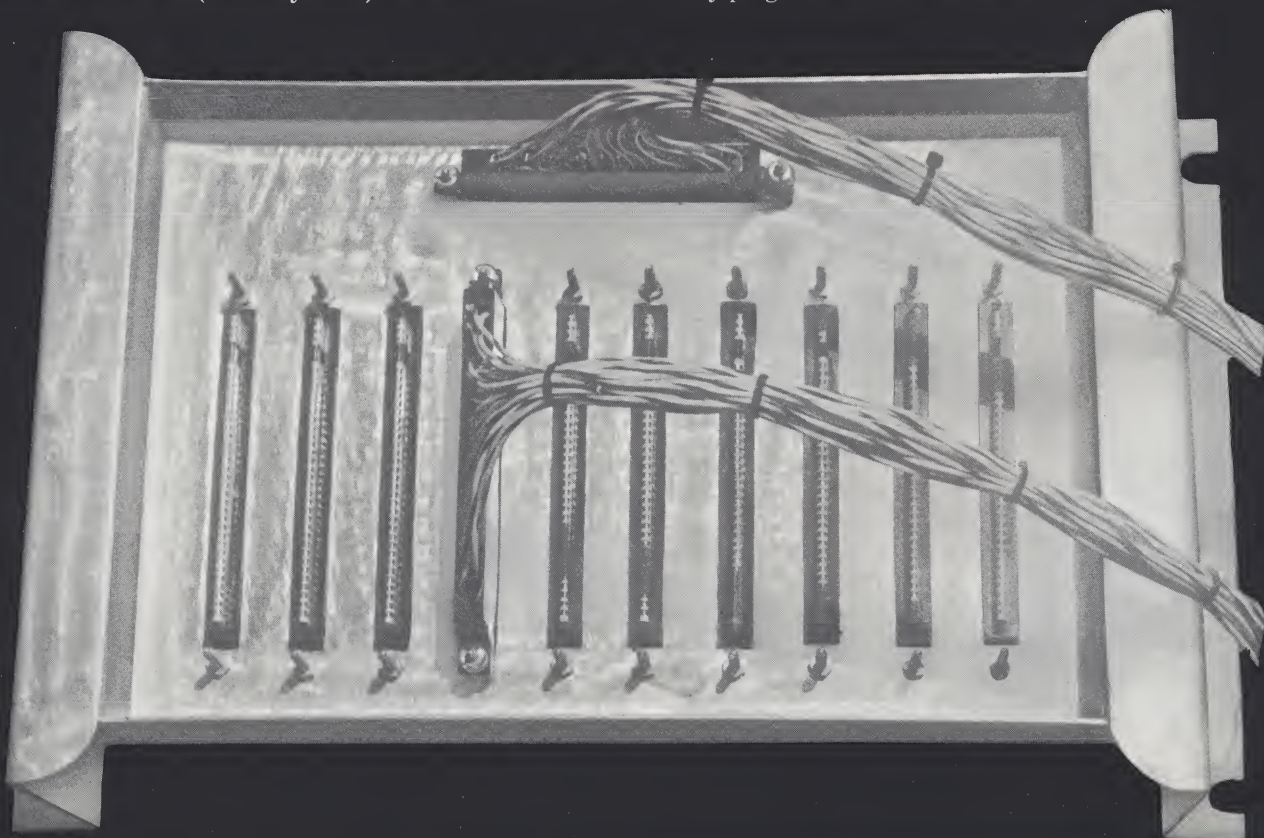
Ready to mount junction box contains Kent Flat Conductor Cable System with circuits running parallel from input to output. Each of ten connectors allows transition from flat conductor to round wire (see top and bottom views). The circuitry not in parallel is carried by 3 conductor cable to connector which then branches to round wires.

#### Details

13 male connectors — Kent's unique method of using the conductor itself for contact requires no terminals or other connection method.

13 female connectors — using Kent strip terminals attached to round wires for electrical contact.

420 contacts — all factory pre-fabricated requiring only plug-in for field installation.





**A flexible,  
modular series of  
sub-systems**

On these and the following several pages are shown some of the advanced techniques and materials that Kent Application Engineers employ to produce Flat Conductor Cable Systems.

Specifications, requirements and cost are thoroughly evaluated to assure a system with reliability and low installed cost. Kent Flat Conductor Cable Systems are complete assemblies and require no preliminary work before installation. Labor is materially reduced and reliability is substantially increased. Every system receives 100% quality control, test and inspection before shipment.



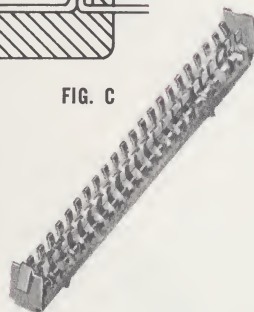
### **MID SPAN TAP FLAT TO FLAT**

The selectively gold plated contact area of the Flat Conductor Cable is formed and locked into the connector housing. To assure positive electrical contact of each conductor, a beryllium copper spring exerts pressure on each conductor. The spring itself carries no electrical current — its function is mechanical only. (See Fig. C.-right). The Kent Mid Span Tap is molded of glass filled alkyd resin (diallyl phthalate) and can be positioned to receive inter-connection from either side. Printed circuit boards, test point check panels or cable branching can be handled by these Kent Mid Span Taps.

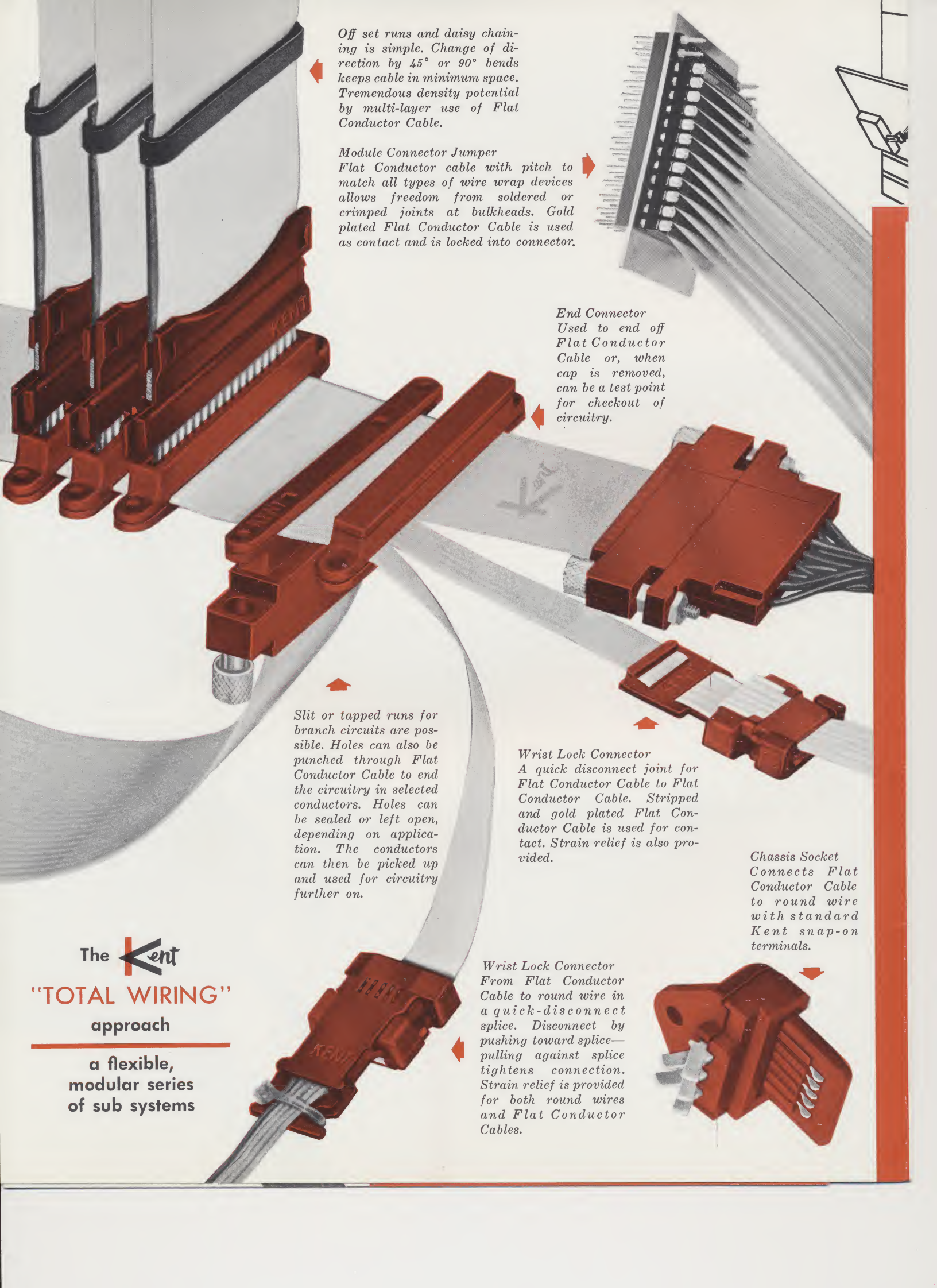
**BARE CONDUCTOR**



**FIG. C**





The image is a technical illustration of the Kent "TOTAL WIRING" system. It features a large, light-colored flat conductor cable running diagonally across the frame. Various red plastic connectors and components are shown in different configurations. In the top left, the cable is bent at a 45-degree angle. In the top right, it's shown in a dense bundle. In the center, a "Module Connector Jumper" is shown connecting two points. To the right, an "End Connector" is shown with a cap. Below that, a "Wrist Lock Connector" is shown joining two cables. At the bottom left, a "Wrist Lock Connector" is shown joining a flat cable to a round wire. At the bottom right, a "Chassis Socket" is shown connecting a flat cable to round wires. Arrows point from the text descriptions to the corresponding components in the illustration.

Off set runs and daisy chaining is simple. Change of direction by 45° or 90° bends keeps cable in minimum space. Tremendous density potential by multi-layer use of Flat Conductor Cable.

**Module Connector Jumper**  
Flat Conductor cable with pitch to match all types of wire wrap devices allows freedom from soldered or crimped joints at bulkheads. Gold plated Flat Conductor Cable is used as contact and is locked into connector.

**End Connector**  
Used to end off Flat Conductor Cable or, when cap is removed, can be a test point for checkout of circuitry.

Slit or tapped runs for branch circuits are possible. Holes can also be punched through Flat Conductor Cable to end the circuitry in selected conductors. Holes can be sealed or left open, depending on application. The conductors can then be picked up and used for circuitry further on.

**Wrist Lock Connector**  
A quick disconnect joint for Flat Conductor Cable to Flat Conductor Cable. Stripped and gold plated Flat Conductor Cable is used for contact. Strain relief is also provided.

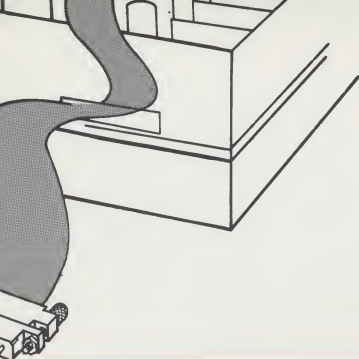
**Chassis Socket**  
Connects Flat Conductor Cable to round wire with standard Kent snap-on terminals.

**Wrist Lock Connector**  
From Flat Conductor Cable to round wire in a quick-disconnect splice. Disconnect by pushing toward splice—pulling against splice tightens connection. Strain relief is provided for both round wires and Flat Conductor Cables.

The **Kent**  
"TOTAL WIRING"  
approach

a flexible,  
modular series  
of sub systems





Flat Conductor Cable fits into the most confined spaces, can even be bonded to the cabinet itself.



Double or triple layer expandable systems afford versatility and connection density.



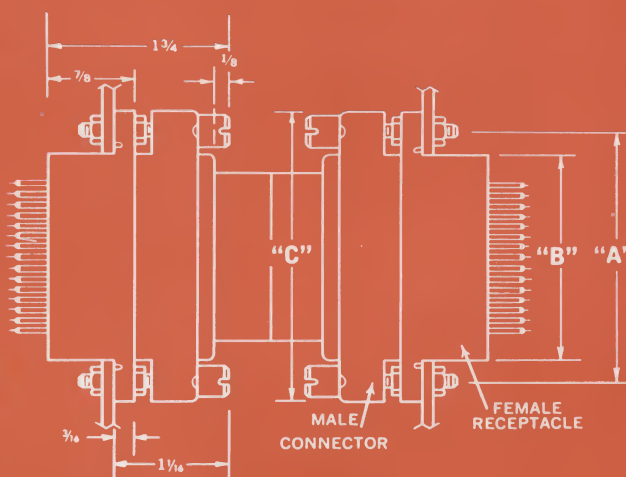
Even rack and panel equipment which swivels the chassis 90° up or down for servicing creates no problems of disturbance to connections or sagging of cable.

■ The Kent Expandable Rack and Panel Connector System is a complete assembly that eliminates hours of detailed labor in preparation of connectors, soldering, crimping, etc., for a substantially lowered installed cost.

Because this one assembly allows the transition from round wire to flat conductor and back to round wire, it is almost universal in application and excellently demonstrates the features of Kent Flat Conductor Cable Systems. Catalog numbers for ordering have been assigned for the most standard requirements.

So that you may become acquainted, Kent will send you an Expandable Rack and Panel Connector System for your evaluation. Order by catalog number on the detachable card below.

(See full money back return provision.)



Number of Conductors	Cable Width ±0.005	Dimensions			Part No. Entire assembly; Extension length, 24"; With contacts attached to 24" round wire leads and installed in female receptacle. Leads are 20 gage, with 0.030 PVC insulation, stripped at loose end.
		"A"	"B"	"C"	
15	1.600	2.400	1.990	2.800	600151
22	2.300	3.120	2.690	3.500	600221
28	2.900	3.720	3.290	4.100	600281
30	3.100	3.920	3.490	4.300	600301
36	3.700	4.520	4.090	4.900	600361

KENT MFG. CORP. 206 CENTER PRINCETON, N.J.

- ☐ Have a district sales representative call.
- ☐ Keep me on your mailing list.
- ☐ Send more information.
- ☐ Send Kent Expandable Rack & Panel System\*,  
Catalog # \_\_\_\_\_

\* For Kent Expandable Rack and Panel System order only, you will be billed subject to complete refund within six months if returned. (Limit one assembly).

Name \_\_\_\_\_  
 Title \_\_\_\_\_  
 Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_